

Title (en)  
NANOBODY EXCHANGE CHROMATOGRAPHY

Title (de)  
NANOKÖRPERAUSTAUSCHCHROMATOGRAPHIE

Title (fr)  
CHROMATOGRAPHIE PAR ÉCHANGE DE NANOCORPS

Publication  
**EP 4077372 A1 20221026 (EN)**

Application  
**EP 20838478 A 20201218**

Priority  
• EP 19219043 A 20191220  
• EP 2020087291 W 20201218

Abstract (en)  
[origin: WO2021123360A1] The present invention relates to the field of affinity purification and provides for means and methods applying protein binding agents competing for a target protein for use as capture and elution tool, wherein the elution agent comprises an immunoglobulin single variable domain (ISVD), and is capable of displacing the capturing binding agent. More specifically, the displacement efficiency of the ISVD-containing protein binding agent is driven by its dissociation kinetics, with a rate constant of dissociation (k<sub>off</sub>) equal or lower as compared to the capturing agent. Furthermore, said protein binding agents are deployable in high-throughput purification from complex mixtures, or for capturing protein-complexes, thereby facilitating structural, biochemical and physicochemical analysis of said target proteins.

IPC 8 full level  
**C07K 16/00** (2006.01); **C07K 1/22** (2006.01); **G01N 33/53** (2006.01)

CPC (source: EP US)  
**C07K 1/22** (2013.01 - EP); **C07K 16/00** (2013.01 - EP); **G01N 1/34** (2013.01 - US); **G01N 33/54306** (2013.01 - US); **G01N 33/6827** (2013.01 - US); **C07K 2317/33** (2013.01 - EP); **C07K 2317/569** (2013.01 - EP); **C07K 2317/92** (2013.01 - EP); **C07K 2319/21** (2013.01 - EP); **C07K 2319/23** (2013.01 - EP); **C07K 2319/60** (2013.01 - EP)

Citation (search report)  
See references of WO 2021123360A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021123360 A1 20210624**; CA 3165429 A1 20210624; EP 4077372 A1 20221026; JP 2023506961 A 20230220; US 2024027467 A1 20240125

DOCDB simple family (application)  
**EP 2020087291 W 20201218**; CA 3165429 A 20201218; EP 20838478 A 20201218; JP 2022537456 A 20201218; US 202017786724 A 20201218